

# Z6FC3/Z6FD1

BEAM TYPE LOAD CELL

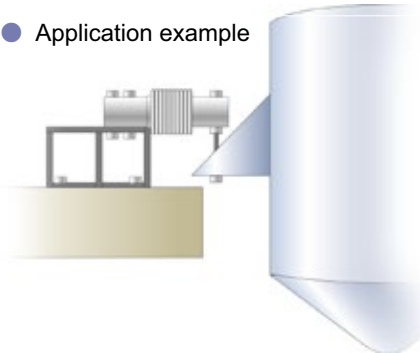


IP68

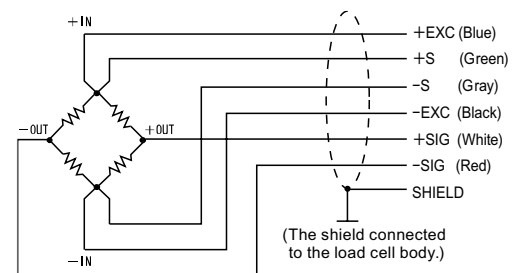
## Specifications

Model	Z6FD1-5KG	Z6FC3-10KG	Z6FC3-20KG, Z6FC3-50KG Z6FC3-100KG, Z6FC3-200KG Z6FC3-500KG, Z6FC3-1T
Rated capacity	5 kg	10 kg	20 kg, 50 kg, 100 kg, 200 kg, 500 kg, 1 t
Rated output	2.0 mV/V $\pm 0.02$ -0.002	2 mV/V $\pm 0.1\%$	2 mV/V $\pm 0.05\%$
Safe overload	150% R.C.		
Non-linearity	0.05% R.O.	0.0180% R.O. typ.	
Hysteresis	0.05% R.O.	0.0170% R.O. typ.	
Creep	0.049% R.O./30 min	0.0166% R.O./30 min	
Compensated temperature range	-10 to +40°C		
Safe temperature range	-30 to +70°C		
Temperature effect on zero	0.05% R.O./10°C	0.0125% R.O./10°C	
Temperature effect on span	0.05% R.O./10°C	0.0080% R.O./10°C typ.	
Input resistance	350 to 480 $\Omega$		
Output resistance	356 $\pm 0.2 \Omega$	356 $\pm 0.12 \Omega$	
Maximum excitation voltage	12 V		
Insulation resistance	5000 M $\Omega$ or more		
Degrees of protection	IP68		
Cable	$\phi 5.4$ 6-conductor shield cable 3 m Cable end: 7 wires		
Load cell material	Stainless steel		

## Application example

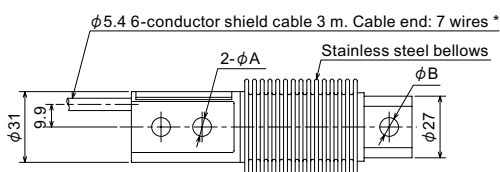
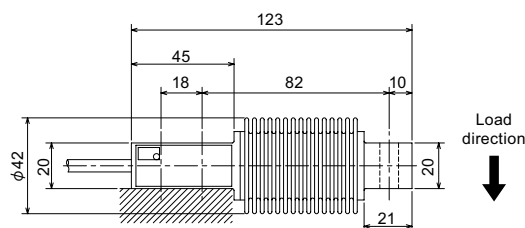


## Wiring diagram

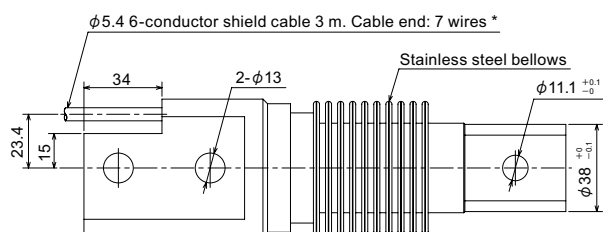
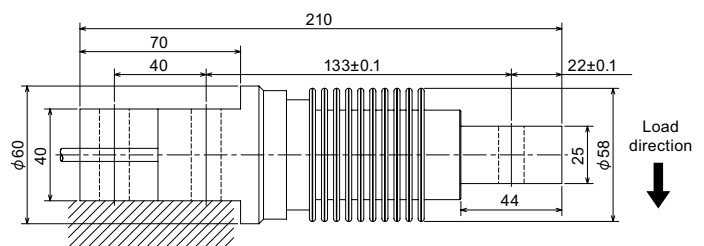


## External dimension

### Z6FD1-5KG/Z6FC3-10KG to 500KG



### Z6FC3-1T



Model	Deflection at rated	Weight	A	B
Z6FD1-5KG	0.24 mm	0.5 kg	8.2	8.2
Z6FC3-10KG	0.30 mm	0.5 kg	8.2	8.2
Z6FC3-20KG	0.29 mm	0.5 kg	8.2	8.2
Z6FC3-50KG	0.27 mm	0.5 kg	8.2	8.2
Z6FC3-100KG	0.31 mm	0.5 kg	8.2	8.2
Z6FC3-200KG	0.39 mm	0.5 kg	8.2	8.2
Z6FC3-500KG	0.60 mm	0.5 kg	10.5	11.1
Z6FC3-1T	0.55 mm	2.3 kg	—	—

\* Connector can be attached to the cable according to your requests. Refer to 84 pages for details.

Refer to drawing at page 81 for Installation of rod end Installation of loading foot

Unit: mm